

5 Days

## 20741B: Networking with Windows Server 2016

The 5-day Microsoft 20741B Networking with Windows Server 2016 training course delivers the essential knowledge of networking required to deploy and maintain Windows Server 2016.

The 20741B course is intended for experienced IT professionals having knowledge of networking and are keen to acquire advanced knowledge of networking technologies in Windows Server 2016. The course provides the understanding of IP fundamentals, software-defined networking, virtual private networks, and remote access systems.

The Next Qualifying Exam would be [20742B: Identity With Windows Server 2016](#)

## Course Details

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### Course Outline

#### Module 1: Planning and implementing an IPv4 network

This module describes how plan and implement an IPv4 addressing scheme to support organizational needs.

##### Lessons

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity

#### Module 2: Implementing DHCP

This module explains how to plan and implement DHCP to support the IPv4 infrastructure.

##### Lessons

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP

#### Module 3: Implementing IPv6

This module introduces implementing IPv6, and how to integrate IPv6 and IPv4 networks.

##### Lessons

- IPv6 addressing Overview
- Configuring an IPv6 host
- Transitioning from IPv4 to IPv6
- Implementing IPv6 and IPv4 coexistence

#### Module 4: Implementing DNS

This module explains how to install, configure, and troubleshoot DNS within the organization's network.

##### Lessons

- Configuring zones in DNS
- Configuring advanced DNS settings
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Implementing DNS servers

## **Module 5: Implementing and managing IPAM**

This module describes how to implement and manage the IPAM feature in Windows Server 2016. This module also explains how to use IPAM to manage services such as DNS and DHCP.

### **Lessons**

- Overview of IPAM
- Deploying IPAM
- Managing IP address spaces by using IPAM

## **Module 6: Remote access in Windows Server 2016**

This module describes how to plan for remote access in Windows Server 2016 and how to implement Web Application Proxy.

### **Lessons**

- Overview of remote access
- Implementing Web Application Proxy

## **Module 7: Implementing DirectAccess**

This module teaches you how to implement and manage DirectAccess in Windows Server 2016.

### **Lessons**

- DirectAccess Overview
- Implementing and managing an advanced DirectAccess infrastructure
- Implementing DirectAccess by using the Getting Started Wizard

## **Module 8: Implementing VPNs**

This module teaches you how to implement and manage remote access in Windows Server 2016 by using VPNs.

### **Lessons**

- VPNs Planning
- Implementing VPNs

## **Module 9: Implementing networking for branch offices**

This module teaches you how to implement network services for branch offices.

### **Lessons**

- Implementing Distributed File System (DFS) for branch offices
- Implementing BranchCache for branch offices
- Networking features and considerations for branch offices

## **Module 10: Configuring advanced networking features**

This module teaches you how to implement an advanced networking infrastructure.

### **Lessons**

- High-performance networking features Overview
- Advanced Microsoft Hyper-V networking features configuration

## **Module 11: Implementing Software Defined Networking**

This module teaches how to implement software-defined networking.

## Lessons

- Software Defined Networking Overview
- Implementing Network Controller
- Implementing network virtualization

## Who Should Attend

The Networking with Windows Server 2016 course is intended for IT professionals who carry relevant knowledge and experience with networking and are looking forward to gaining insights into the core and advanced networking technologies in Windows Server 2016.

This audience would include:

- Network administrators
- System or Infrastructure Administrators

## Pre Requisite

In addition to professional experience, students who attend this training should already have the following technical knowledge:

- Experience working in a Windows Server infrastructure enterprise environment
- Experience working with Windows Server 2008 or Windows Server 2012
- Hands-on experience working with the Windows client operating systems such as Windows 8.1 or Windows 10
- Knowledge of the Open Systems Interconnection (OSI) model
- Familiarity with networking topologies and architectures such as local area networks (LANs), wide area networks (WANs) and wireless networking.
- Understanding of core networking infrastructure components and technologies
- Some basic knowledge of the TCP/IP protocol stack, addressing and name resolution

## Exams

Networking with Windows Server 2016 [70-741]

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